

Date: Thu, 23 Jun 94 04:30:30 PDT  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #171  
To: Ham-Homebrew

Ham-Homebrew Digest                      Thu, 23 Jun 94                      Volume 94 : Issue 171

Today's Topics:

Cavities  
Connecting frequency counter help needed (2 msgs)  
G-10 CIRCUIT BOARD?  
Mica HV Capacitors

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 22 Jun 1994 10:45:59 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!xlink.net!scsing.switch.ch!  
swidir.switch.ch!univ-lyon1.fr!elendir@network.ucsd.edu  
Subject: Cavities  
To: ham-homebrew@ucsd.edu

NX7U (nx7u@aol.com) wrote:  
: with respect to Q of cylindrical cavities...  
: I can answer your questions next week (I'm away from home now). Do  
: you need text references or the answer itself?  
: Scott nx7u@aol.com

Well, the answer is okay, but since I am always interested in finding more,  
text references would be great also !

Always curious,  
Vince, F1RCS

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Date: Wed, 22 Jun 1994 11:02:00 GMT  
From: newsflash.concordia.ca!vax2.concordia.ca!hirschj@uunet.uu.net  
Subject: Connecting frequency counter help needed  
To: ham-homebrew@ucsd.edu

I have an old receiver (tubes, .5-30 MHz) with analog tuning.  
I also have a frequency counter which I want to connect so  
as to be more accurate in determining the frequency I am  
receiving. Where in the receiver circuit would I connect  
the counter (output:of 1st RF amp? 2nd RF amp? IF? 1st  
converter? 2nd converter? IF buffer? 1st, 2nd, or 3rd IF  
amp? detector?) Or is there some miracle way to pick up  
RF from the receiver with an antenna without having to make  
a mod. Any help would be appreciated.  
Thanks,  
Jack

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Date: 22 Jun 1994 15:03:53 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!hobbes.cc.uga.edu!  
aisun3.ai.uga.edu!mcovingt@network.ucsd.edu  
Subject: Connecting frequency counter help needed  
To: ham-homebrew@ucsd.edu

In article <22JUN199406023375@vax2.concordia.ca> hirschj@vax2.concordia.ca (JACK  
HIRSCHBERG) writes:

>I have an old receiver (tubes, .5-30 MHz) with analog tuning.  
>I also have a frequency counter which I want to connect so  
>as to be more accurate in determining the frequency I am  
>receiving. Where in the receiver circuit would I connect  
>the counter (output:of 1st RF amp? 2nd RF amp? IF? 1st  
>converter? 2nd converter? IF buffer? 1st, 2nd, or 3rd IF  
>amp? detector?) Or is there some miracle way to pick up  
>RF from the receiver with an antenna without having to make  
>a mod. Any help would be appreciated.  
>Thanks,  
>Jack

The IF will always be 455 kHz (or some other fixed frequency),  
so there's no point in measuring it.

The incoming RF will be too weak, and you don't want to take any  
of it away. Anyhow, you'll be measuring several signals at once  
(at frequencies close to each other) if you measure at an RF stage.  
The IF stages pick out the exact one you're tuned to.

Measure the oscillator, and subtract 455 kHz from the reading.  
Thus, when you are tuned to 10.000 MHz, the counter will read 10.455.

The really proper way to do it is to build a counter that will automatically subtract 455 from the number to be displayed -- for example, by starting at 999545 rather than at 000000 on each count.

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< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >  
< The University of Georgia, Athens, GA 30602-7415 USA    mcovingt@ai.uga.edu >  
< Unless specifically indicated, I am not speaking for the University. >    <><  
For information about any U.Ga. graduate program, email gradadm@uga.cc.uga.edu.

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Date: Wed, 22 Jun 1994 15:19:55 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!hp-pcd!hpcvsnz!tomb@network.ucsd.edu  
Subject: G-10 CIRCUIT BOARD?  
To: ham-homebrew@ucsd.edu

Mike Lyon (mlyon@rahul.net) wrote:  
: i was wondering if anyone out there has any idea where i could pick up  
: some g-10 type circuit board.any help would be appreciated.

I think G10 has been entirely replaced by FR4; they should be equivalent unless you particularly do not want fire resistance. You should be able to find surplus board material at many surplus places; see ads in "Electronics Now" for example (their expanded ad section appears only once every three or four months)

73, Tom -- K7ITM

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Date: 22 Jun 1994 11:01:37 -0500  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!spool.mu.edu!uwm.edu!omnifest.uwm.edu!omnifest.uwm.edu!not-for-mail@network.ucsd.edu  
Subject: Mica HV Capacitors  
To: ham-homebrew@ucsd.edu

Cleaning out the shack and found a bunch of high voltage mica caps. They range from .01MFD to .0005MFD. Voltage range from 1200 volts to 5KV. All you builders out there, email your needs and I'll see if I can match them up. I picked these up at hamfests over the last 20 years and always refused to pay more than 50 cents each so that's what I'll let them go for. Plus shipping of course. Email: raym@omnifest.uwm.edu Ray WB9ZIQ

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End of Ham-Homebrew Digest V94 #171

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